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Corsair CX430

CORSAIR CX430 430 Watt Non-Modular Power Supply User Manual

MODEL: CX430 (CP-9020046-NA / CMPSU-430CXV2)

Brand: Corsair

1. INTRODUCTION

The CORSAIR CX430 is a 430 Watt non-modular power supply unit (PSU) designed to provide stable and reliable power to your desktop computer system. This unit is 80 PLUS Bronze certified, indicating an efficiency of 80% or higher at normal load conditions (20% to 100% load). Key features include an ultra-quiet 120mm fan for efficient cooling with low noise, a dedicated single +12V rail for maximum compatibility with modern components, and comprehensive protection circuits to safeguard your system. This manual provides essential information for the safe installation, operation, and maintenance of your CX430 power supply.



Figure 1: The CORSAIR CX430 430 Watt Non-Modular Power Supply in its retail packaging. The box highlights the CX Series branding, the CX430 model number, and its ATX power supply designation.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating this power supply. Failure to do so may result in personal injury or damage to your equipment.

- **Electrical Hazard:** The power supply contains high voltage components. Do not open the power supply casing. There are no user-serviceable parts inside. Opening the unit will void the warranty and poses a risk of electric shock.
- **Power Disconnection:** Always disconnect the AC power cord from the wall outlet and the power supply before installation, removal, or any maintenance.
- **Grounding:** Ensure the power supply is properly grounded using the provided AC power cord.
- **Ventilation:** Do not block any ventilation openings of the power supply. Ensure adequate airflow within your computer case to prevent overheating.
- **Moisture:** Do not operate the power supply in high humidity environments or expose it to water or other liquids.
- **Overload Protection:** The power supply is equipped with over-voltage, over-power, under-voltage, and short-circuit protection. However, do not attempt to overload the unit beyond its specified wattage.
- **Temperature:** Operate the power supply within the specified ambient temperature range.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- CORSAIR CX430 430 Watt Non-Modular Power Supply
- AC Power Cord
- Mounting Screws
- Cable Ties (for cable management)
- User Manual (this document)

4. SETUP AND INSTALLATION

Follow these steps to properly install your CORSAIR CX430 power supply into your computer system.

4.1. Preparation

1. **Power Off:** Ensure your computer is completely powered off and unplugged from the wall outlet.
2. **Open Case:** Remove the side panel(s) of your computer case to access the internal components.
3. **Remove Old PSU (if applicable):** If replacing an existing power supply, disconnect all cables from the motherboard and other components. Unscrew the old PSU from the case and carefully remove it.

4.2. Mounting the Power Supply

1. Position the CX430 into the power supply bay of your computer case. Ensure the fan is facing the correct direction for optimal airflow (typically facing downwards if there's a bottom vent, or upwards if it's a top-mounted PSU without a bottom vent).
2. Secure the power supply to the case using the four mounting screws provided.

4.3. Connecting Cables

The CX430 is a non-modular power supply, meaning all cables are permanently attached. Connect the necessary cables to your components.

- **24-pin ATX Motherboard Connector:** Connect this large connector to the corresponding port on your motherboard. Ensure it clicks securely into place.
- **4+4 pin EPS/ATX 12V CPU Connector:** Connect this to the CPU power port on your motherboard. This connector may split

into two 4-pin sections; use both for 8-pin CPU power, or one 4-pin section if your motherboard only requires 4-pin.

- **6+2 pin PCIe Connectors:** If your graphics card requires additional power, connect the 6+2 pin PCIe connector(s) to the graphics card. These connectors can be used as 6-pin or 8-pin depending on your card's requirements.
- **SATA Power Connectors:** Connect these to your SATA hard drives, solid-state drives (SSDs), and optical drives.
- **Peripheral (Molex) Connectors:** Use these for older components, case fans, or other accessories that require Molex power.

After connecting all necessary cables, use the provided cable ties to manage any excess cables. This improves airflow and the overall aesthetics of your build.

5. OPERATING INSTRUCTIONS

Once the power supply is installed and all components are connected:

1. **Close Case:** Reattach the side panel(s) of your computer case.
2. **Connect AC Power:** Plug the AC power cord into the power supply and then into a wall outlet.
3. **Power On:** Flip the power switch on the back of the power supply to the 'ON' (I) position. Then, press the power button on your computer case.

The CX430's 120mm fan operates quietly, adjusting its speed based on temperature to maintain optimal cooling without excessive noise. Your system should now power on normally.

6. MAINTENANCE

The CORSAIR CX430 power supply is designed for long-term reliability with minimal maintenance.

- **Dust Removal:** Periodically inspect the power supply's fan and vents for dust accumulation. If dust is present, carefully clean it using compressed air while the power supply is disconnected from the AC outlet. Hold the fan blades gently to prevent over-spinning during cleaning.
- **Airflow:** Ensure that the computer case has good airflow and that the power supply's intake and exhaust vents are not obstructed.
- **No User-Serviceable Parts:** Do not attempt to open the power supply casing for any reason. This will void the warranty and can be dangerous.

7. TROUBLESHOOTING

If you encounter issues with your CORSAIR CX430 power supply, refer to the following troubleshooting steps.

- **System Does Not Power On:**
 - Verify the AC power cord is securely connected to both the power supply and the wall outlet.
 - Ensure the power switch on the back of the PSU is in the 'ON' (I) position.
 - Check all internal power connections (24-pin ATX, 4+4 pin CPU, PCIe, SATA) to ensure they are firmly seated.
 - Test the wall outlet with another device to confirm it is supplying power.
 - If possible, test the power supply in another known working system or with a PSU tester.
- **System Powers On but Shuts Down Immediately:**
 - This could indicate an overload or a short circuit. Disconnect non-essential components (e.g., extra drives, graphics card if you have integrated graphics) and try again.
 - Ensure no loose screws or metal objects are causing a short circuit inside the case.
- **Unusual Noise from PSU Fan:**

- Check for dust accumulation on the fan blades and clean if necessary (refer to Maintenance section).
- Ensure no cables are obstructing the fan's rotation.

If these steps do not resolve the issue, contact CORSAIR customer support for further assistance.

8. SPECIFICATIONS

Feature	Specification
Model	CX430 (CP-9020046-NA / CMPSU-430CXV2)
Output Wattage	430 Watts
Efficiency Certification	80 PLUS Bronze
Form Factor	ATX
Cooling Method	Air (120mm fan)
Dimensions (L x W x H)	5.9 x 5.5 x 3.4 inches (150mm x 140mm x 86mm)
Item Weight	4.52 pounds (2.05 kg)
Input Voltage	90~264V (Universal AC input)
Protections	Over-voltage, Over-power, Under-voltage, Short-circuit

9. WARRANTY AND SUPPORT

The CORSAIR CX430 power supply comes with a **three-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For technical support, warranty claims, or further assistance, please visit the official CORSAIR website or contact their customer service department. You will typically need your proof of purchase and the product's serial number.

[Visit CORSAIR Support](#)

